

CLAIMS

1. An interface between a vehicle and a weapon, characterized in that it comprises at least one retractable structure intended to form a mechanical connection between the vehicle and the weapon when it is retracted, the retractable structure being configured to allow the weapon to move relative to the vehicle when relaxed, such that the stresses induced by the launch of a projectile are not transmitted to the vehicle.
2. The interface as claimed in claim 1, characterized in that the retractable structure comprises:
 - a flexible element connecting the vehicle to the weapon
 - a traction member designed to relax and retract the flexible element.
3. The interface as claimed in claim 2, characterized in that it further comprises self-centering elements designed to come into register with one another when the retractable structure is retracted, and configured to maintain their position against forces that tend to apply shear to the flexible element.
4. The interface as claimed in claim 3, characterized in that the self-centering elements comprise a male cone and a female cone, the male and female cones being intended to fit one inside the other.
5. The interface as claimed in any one of the preceding claims, characterized in that it further comprises a mechanism involving jaws which is configured to be lockable about a tubular part of the weapon, so as to mount the interface on the weapon.

6. The interface as claimed in one of the preceding claims, characterized in that it further comprises a crane, mechanically connected to the retractable structure, intended to be carried by the vehicle, and
5 configured to bring the weapon onto the vehicle.
7. The interface as claimed in any one of claims 2 to 6, characterized in that it further comprises uncoupling means designed to uncouple the flexible
10 element from the weapon, and configured to be manually operable.
8. The interface as claimed in any one of the preceding claims, characterized in that there are at
15 least two retractable structures.
9. A vehicle equipped with an interface as claimed in any one of the preceding claims.
- 20 10. A weapon comprising means of connection with an interface as claimed in any one of claims 1 to 8.